

OIPE #5

CRF Errors Corrected by the STIC Systems Branch

Serial Number: 09/834,794A

CRF Processing Date: 7/24/2001  
Edited by: [Signature]  
Verified by: [Signature] (STIC staff)

**ENTERED**

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: \_\_\_\_\_
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☐ Inserted mandatory headings, specifically: \_\_\_\_\_
- ☒ Corrected an obvious error in the response, specifically:  
Seq 7 - corrected 2127 response
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## RAW SEQUENCE LISTING

DATE: 07/24/2001

PATENT APPLICATION: US/09/834,794A

TIME: 20:03:19

Input Set : A:\Pto.amc

Output Set: N:\CRF3\07242001\I834794A.raw

PS

3 <110> APPLICANT: Lawrence, Papsidero  
 4 Lyn, Dyster  
 5 Jana, Frustaci  
 7 <120> TITLE OF INVENTION: Detection and Treatment of Breast Cancer  
 9 <130> FILE REFERENCE: 3380/11127-US4  
 11 <140> CURRENT APPLICATION NUMBER: 09/834,794A  
 12 <141> CURRENT FILING DATE: 2001-04-13  
 14 <150> PRIOR APPLICATION NUMBER: 09/146,580  
 15 <151> PRIOR FILING DATE: 1998-09-03  
 17 <150> PRIOR APPLICATION NUMBER: 60/071,899  
 18 <151> PRIOR FILING DATE: 1998-01-20  
 20 <150> PRIOR APPLICATION NUMBER: 60/092,155  
 21 <151> PRIOR FILING DATE: 1998-07-09  
 23 <160> NUMBER OF SEQ ID NOS: 35  
 25 <170> SOFTWARE: PatentIn version 3.0  
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 33 <221> NAME/KEY: UNSURE  
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 39 <221> NAME/KEY: UNSURE  
 40 <222> LOCATION: (91)..(91)  
 41 <223> OTHER INFORMATION: Xaa at position 91 is either Lys or Asn  
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 47 1 5 10 15  
 49 Leu His Ala Ser Glu Ala Ile Leu Pro Ile Ala Ser Ser Cys Cys Thr  
 50 20 25 30  
 52 Glu Val Ser His His Ile Ser Arg Arg Leu Leu Glu Arg Val Asn Met  
 53 35 40 45  
 55 Cys Arg Ile Gln Arg Ala Asp Gly Asp Cys Asp Leu Ala Ala Val Ile  
 56 50 55 60  
 58 Leu His Val Lys Arg Xaa Arg Ile Cys Val Ser Pro His Asn His Thr  
 59 65 70 75 80  
 61 Val Lys Gln Trp Met Lys Val Gln Ala Ala Xaa Lys Asn Gly Lys Gly  
 62 85 90 95  
 64 Asn Val Cys His Arg Lys Lys His His Gly Lys Arg Asn Ser Asn Arg  
 65 100 105 110  
 67 Ala His Gln Gly Lys His Glu Thr Tyr Gly His Lys Thr Pro Tyr  
 68 115 120 125  
 70 <210> SEQ ID NO: 2  
 71 <211> LENGTH: 104  
 72 <212> TYPE: PRT

## RAW SEQUENCE LISTING

DATE: 07/24/2001

PATENT APPLICATION: US/09/834,794A

TIME: 20:03:19

Input Set : A:\Pto.amc

Output Set: N:\CRF3\07242001\I834794A.raw

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 82 <221> NAME/KEY: UNSURE  
 83 <222> LOCATION: (68)..(68)  
 84 <223> OTHER INFORMATION: Xaa at position 68 is either Lys or Asn  
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 90 1 5 10 15  
 92 Arg Arg Leu Leu Glu Arg Val Asn Met Cys Arg Ile Gln Arg Ala Asp  
 93 20 25 30  
 W--> 95 Gly Asp Cys Asp Leu Ala Ala Val Ile Leu His Val Lys Arg Xaa Arg  
 96 35 40 45  
 98 Ile Cys Val Ser Pro His Asn His Thr Val Lys Gln Trp Met Lys Val  
 99 50 55 60  
 W--> 101 Gln Ala Ala Xaa Lys Asn Gly Lys Gly Asn Val Cys His Arg Lys Lys  
 102 65 70 75 80  
 104 His His Gly Lys Arg Asn Ser Asn Arg Ala His Gln Gly Lys His Glu  
 105 85 90 95  
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 108 100  
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 124 <211> LENGTH: 16  
 125 <212> TYPE: PRT  
 126 <213> ORGANISM: Homo sapiens  
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 131 1 5 10 15  
 133 <210> SEQ ID NO: 5  
 134 <211> LENGTH: 19  
 135 <212> TYPE: PRT  
 136 <213> ORGANISM: Homo sapiens  
 138 <400> SEQUENCE: 5  
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 141 1 5 10 15  
 143 Thr Pro Tyr  
 146 <210> SEQ ID NO: 6  
 147 <211> LENGTH: 3117

## RAW SEQUENCE LISTING

DATE: 07/24/2001

PATENT APPLICATION: US/09/834,794A

TIME: 20:03:19

Input Set : A:\Pto.amc

Output Set: N:\CRF3\07242001\I834794A.raw

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 t/u  
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 158 <221> NAME/KEY: unsure  
 159 <222> LOCATION: (1)..(3117)  
 160 <223> OTHER INFORMATION: y at any position in the sequence represents t/u or c  
 163 <220> FEATURE:  
 164 <221> NAME/KEY: unsure  
 165 <222> LOCATION: (1)..(3117)  
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 169 <220> FEATURE:  
 170 <221> NAME/KEY: unsure  
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 175 <220> FEATURE:  
 176 <221> NAME/KEY: unsure  
 177 <222> LOCATION: (1)..(3117)  
 178 <223> OTHER INFORMATION: s at any position in the sequence represents g or c  
 181 <220> FEATURE:  
 182 <221> NAME/KEY: unsure  
 183 <222> LOCATION: (1)..(3117)  
 184 <223> OTHER INFORMATION: w at any position in the sequence represents a or t/u  
 187 <220> FEATURE:  
 188 <221> NAME/KEY: unsure  
 189 <222> LOCATION: (1)..(3117)  
 190 <223> OTHER INFORMATION: r at any position in the sequence represents g or a  
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 197 actcgccatc gtggccttgg ctgtctgtgc ggccctacat gcctcagaag ccatacttcc 120  
 199 cattgcctcc agctgttgca cggagggttc acatcatatt tccagaaggc tcttggaagg 180  
 201 agtgaatatg tgtcgcatcc agagagctga tggggattgt gacttggtg ctgtcatcct 240  
 W--> 203 tcatgtcaag cgcngaagaa tctgtgtcag cccgcacaac catactgtta agcagtggat 300  
 W--> 205 gaaagtgcaa gctgccaana aaaatggtaa aggaaatgtt tgccacagga agaaacacca 360  
 207 tggcaagagg aacagtaaca gggcacatca ggggaaacac gaaacatacg gccataaaac 420  
 209 tccttattag agaatctaca gataaatcta cagagacaat cccccaagtg gacttggtca 480  
 211 tgattggttg taagtttatc atctgaattc tccttattgt agacaacaga acaaaaacaa 540  
 213 atattggttt ttaaaaaatg aacaattgtg ccgtatgcaa atgtacccaa taatatactc 600  
 W--> 215 cactggaaaa tgaaatgaaa aaannatact ggctgggtat ggtgggtccc ccctttttatc 660  
 W--> 217 ccannnnctt cgggaggcag aggcaggagg atcacttgag accaggantt ngagacnagc 720  
 W--> 219 tnggggcaaa anagcaanga cntcatttnt acaaacnaaa aaaaannttg gcccgcntg 780  
 W--> 221 gtagnacttg cntataatcc cagcnacatg ggaggtnag gtgggaggat cacttgagtc 840  
 W--> 223 tggngaggtt ngaggtnagca gtgagcagcn tgggtgacag aatgnagacc ntgtctctaa 900  
 W--> 225 aaataataat aataatgata gtgtatatct tcatataata ttttaagnag gagcatatag 960  
 W--> 227 atataacttn ctcccaactt ttttaattata gttttccaaa cttacagaga agttaaaaga 1020  
 229 atggtacaat gaacatctat atatctttca ccacaatatt aatcattgtt aatattgtgc 1080

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TIME: 20:03:19

Input Set : A:\Pto.amc

Output Set: N:\CRF3\07242001\I834794A.raw

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W--> 231 cacatttgc tctctctccc tctcttggtg ggggttncaa tataaaatat tataactttt 1140
      233 aaaatatatc ttgttttgct aaccattgga aaataagttg caaaaatcat gacacttcac 1200
W--> 235 ccctagtttc ttttnggtgt tataacttga cataccctaa aataaagaca tttttctaca 1260
      237 taatcacctt atcagtttta tacctaaaaa attaataatt tcatctaata tattccatat 1320
      239 tcaaattttc ccaactattt agagagcatt ttatgtagtt tttttttcac tccagtaatc 1380
W--> 241 aatcaaggtn gacatacata ttgcaaataa ttgttatttt tctttaatat ctttcaatct 1440
      243 aagaaagttc ctctgtcttt tttttttaat ttttaaaatt attttggtga gggagggtct 1500
      245 tgctgtgtct tccaggctgg agtgagtggt cacaattttg attttggtc actgaagcct 1560
W--> 247 caactttagg gctcaagcaa tctctcccac tcagcctncc cgagtatctg ggatcaagggt 1620
      249 gcatacccac cacacctggc taattttggt tattttttgt agagacaggg tctcactatg 1680
      251 ttgcccagggt tgatctcaaa ctctggggt caagcgatcc tcccaccta gcctcccaaa 1740
      253 gtactgggat tatagggtgt agccacagtg cctggcctaa ttattttctt gtgatcaaat 1800
      255 tcaggtttaa tgtttttggt taagaatttc ctacgtgaat tcgtgtactt attttgtcat 1860
      257 ttagagttca taaatattag ggtttatttt ctaaatagaa tagtttaaac taaatataac 1920
      259 ttcaaaaagt ctagtttgag tagctaccgt tgtttggatt gaaattttct gatactgaaa 1980
W--> 261 agaacaaaaa gcctgccttt ctgcccanaa csnnrtgcyt cccccagtna gttcttggng 2040
W--> 263 cagnactagt tagggnccca gagttnggcc ttngkgtgg tgattttang yctgcctaa 2100
W--> 265 acaaggngcn wacatytttt agtctctatt ccaccyttct namamgtttt tgtgtkggt 2160
W--> 267 tgnntgtttt tttkgagaca grrtntnayt ctgtttgcc argetggart tgcagtggca 2220
W--> 269 caatytnngy tncattgcaa cytcngcytc cssgcggtc aaktgatyyt cttgcytcag 2280
W--> 271 cytccccaa taantgatat tacaggngcc cagccaccam accccgntga wttttgtatt 2340
W--> 273 tttartarar amrgggtttt cccgnttggt cngggctggt ctznaantcc ttgamctcna 2400
W--> 275 ktgaaccacc cgctgtgcc ycccaaaant ctggaattac cancgttgan ccaccatgcc 2460
W--> 277 gggcycacac gtttgarttt ganaccattg tncattcct cttttggcct yttttnttc 2520
W--> 279 catagnngct tcaagataga tangtaagrg ccagtagtn gttcwtarga agcnmatagr 2580
W--> 281 rancrggarc cantttnatc aggtgggcag gtgtccnng cytccctgct ggytnntccc 2640
W--> 283 aagcggtggt gttgccarga nktnttggar gtgataatgg gananaccag naggcmctga 2700
W--> 285 gtyncnntag gttnaaatgc caccaaaact ggcctttggc ctaatatccy ycnttgamta 2760
W--> 287 nttarcattt awtttattwa tttncctgac attntgcm naectttgtw ttntatttcc 2820
W--> 289 nctntatara wgargaaatt tgaggntytt araggtaaaa tganttgcnc nrgtnnacmc 2880
W--> 291 aggaagtggc nraranaanc tttttanatn mgaaaaaatt aataaaatat aatatgagag 2940
      293 taacttaaaa tattaataaa ccacaatttt aaattaatta accgtgataa ccaacattaa 3000
W--> 295 taaaagttaa gataccaaaa cactggtgtn taattttttt aactaacaan ttgaattatt 3060
W--> 297 ttccatttta aattaattaa ccgtgataac caacattaat aaaagttaag ataccgn 3117
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301 <211> LENGTH: 381
302 <212> TYPE: DNA
303 <213> ORGANISM: Homo sapiens
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306 <221> NAME/KEY: unsure
307 <222> LOCATION: (208)..(208)
308 <223> OTHER INFORMATION: n may represent a or g or c or t/u
311 <220> FEATURE:
312 <221> NAME/KEY: unsure
313 <222> LOCATION: (273)..(273)
314 <223> OTHER INFORMATION: n may represent a or g or c or t/u
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320 gaagccatac ttccatttgc ctccagctgt tgcacggagg tttcacatca tatttccaga 120

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## RAW SEQUENCE LISTING

DATE: 07/24/2001

PATENT APPLICATION: US/09/834,794A

TIME: 20:03:19

Input Set : A:\Pto.amc

Output Set: N:\CRF3\07242001\I834794A.raw

322 aggctcctgg aaagagtgaat tatgtgtcgc atccagagag ctgatgggga ttgtgacttg 180  
 324 gctgctgtca tccttcatgt caagcgenga agaattctgtg tcagcccgca caaccatact 240  
 326 gttaagcagt ggatgaaagt gcaagctgcc aaaaaaatg gtaaaggaaa tgtttgccac 300  
 328 aggaagaaac accatggcaa gaggaacagt aacagggcac atcaggggaa acacgaaaca 360  
 330 tacggccata aaactcctta t 381  
 333 <210> SEQ ID NO: 8  
 334 <211> LENGTH: 104  
 335 <212> TYPE: DNA  
 336 <213> ORGANISM: Homo sapiens  
 338 <400> SEQUENCE: 8  
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 341 aaataattag gccaggcact gtggctcaca cctataatcc cagt 104  
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 345 <211> LENGTH: 25  
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 353 <210> SEQ ID NO: 10  
 354 <211> LENGTH: 22  
 355 <212> TYPE: DNA  
 356 <213> ORGANISM: Homo sapiens  
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 363 <211> LENGTH: 311  
 364 <212> TYPE: DNA  
 365 <213> ORGANISM: Homo sapiens  
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 368 <221> NAME/KEY: unsure  
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 375 <222> LOCATION: (162)..(162)  
 376 <223> OTHER INFORMATION: n may be a or g or c or t/u  
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 382 gggtgtttctt cctgtggcaa acatttcctt taccattttt ntggcagct tgcactttca 120  
 384 tccactgctt aacagtatgg ttgtgctggc tgacacagat tntctgctt ttgacatgaa 180  
 386 ggatgacagc agccaagtca caatcccat cagctctctg gatgagacac atattcactc 240  
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 390 gaagtatggc t 311  
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 394 <211> LENGTH: 20  
 395 <212> TYPE: DNA  
 396 <213> ORGANISM: Artificial sequence  
 398 <220> FEATURE:  
 399 <223> OTHER INFORMATION: Sequencing primer T7

FYE

Use of n and/or Xaa has been detected in the Sequence Listing.  
 Review the Sequence Listing to insure a corresponding  
 explanation is presented in the <220> to <223> fields of  
 each sequence using n or Xaa.

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/834,794A

DATE: 07/24/2001

TIME: 20:03:20

Input Set : A:\Pto.amc

Output Set: N:\CRF3\07242001\I834794A.raw

L:58 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
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L:95 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:101 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:215 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
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L:221 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:223 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
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L:297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
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L:384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11

OIPE

## RAW SEQUENCE LISTING

DATE: 07/05/2001

PATENT APPLICATION: US/09/834,794A

TIME: 10:32:19

Input Set : A:\Sequenc3.txt

Output Set: N:\CRF3\07052001\I834794A.raw

Does Not Comply  
Corrected Diskette Needed

3 <110> APPLICANT: Lawrence, Papsidero  
 4 Lyn, Dyster  
 5 Jana, Frustaci  
 7 <120> TITLE OF INVENTION: Detection and Treatment of Breast Cancer  
 9 <130> FILE REFERENCE: 3380/11127-US4  
 11 <140> CURRENT APPLICATION NUMBER: 09/834,794A  
 12 <141> CURRENT FILING DATE: 2001-04-13  
 14 <150> PRIOR APPLICATION NUMBER: 09/146,580  
 15 <151> PRIOR FILING DATE: 1998-09-03  
 17 <150> PRIOR APPLICATION NUMBER: 60/071,899  
 18 <151> PRIOR FILING DATE: 1998-01-20  
 20 <150> PRIOR APPLICATION NUMBER: 60/092,155  
 21 <151> PRIOR FILING DATE: 1998-07-09  
 23 <160> NUMBER OF SEQ ID NOS: 35  
 25 <170> SOFTWARE: PatentIn version 3.0

## ERRORED SEQUENCES

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 301 <211> LENGTH: 381  
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 303 <213> ORGANISM: Homo sapiens  
 305 <220> FEATURE:  
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 308 <223> OTHER INFORMATION: n may represent a or g or c or t/u  
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 313 <222> LOCATION: (273)..(273)  
 314 <223> OTHER INFORMATION: n may represent a or g or c or t/u  
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 322 aggctcctgg aaagagtga tttgtgtcgc atccagagag ctgatgggga ttgtgacttg 180  
 324 gctgctgtca tcttcatgt caagcgnga agaattctgt tcagcccgca caaccatact 240  
 326 gtttaagcagt ggatgaaagt gcaagctgcc aanaaaaatg gtaaaggaaa tgtttgccac 300  
 328 aggaagaac accatggcaa gaggaacagt aacagggcac atcaggggaa acacgaaaca 360  
 330 tacggccata aaactcctta t 381



## VERIFICATION SUMMARY

DATE: 07/05/2001

PATENT APPLICATION: US/09/834,794A

TIME: 10:32:20

Input Set : A:\Sequenc3.txt

Output Set: N:\CRF3\07052001\I834794A.raw

L:58 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:61 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:95 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:101 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:215 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:221 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:223 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:225 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:227 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:247 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:263 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:265 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:267 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:273 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:275 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:281 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:283 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:287 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:291 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:302 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:  
L:382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11